

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and most difficult in the history of science.

2. The second part of the paper is devoted to a detailed discussion of the various theories of the origin of life. It is shown that the most plausible theory is that of the spontaneous generation of life from non-living matter. This theory is supported by the fact that life is found in the most hostile environments on Earth and in other planets.

3. The third part of the paper is devoted to a discussion of the evidence for the evolution of life. It is shown that the evidence is overwhelming and that life has evolved from simple to complex forms.

4. The fourth part of the paper is devoted to a discussion of the future of life on Earth. It is shown that life is likely to continue to evolve for billions of years.

APR 12 1941

# FORTUNES WASHED AWAY

A Series of  
Dramatizations  
of Better  
Land Use

No. 146 February 8, 1941 1:15 p.m.

"FATHER WAS A SOIL BUILDER"

W·L·W CINCINNATI

United States Department of Agriculture  
Soil Conservation Service  
Dayton · Ohio

LIBRARY

Soil Conservation Service



THE UNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

OFFICE OF THE ASSISTANT  
SECRETARY  
WASHINGTON, D. C.



U.S. GOVERNMENT PRINTING OFFICE

1914 - 21000 Department of the Interior  
U.S. GOVERNMENT PRINTING OFFICE  
WASHINGTON, D. C.

SOUND: Whistling wind...

VOICE

Black blizzards across the plains.

SOUND OFF MIKE: Woman coughing...

SECOND VOICE

Biting wind!

DEEP VOICE

Choking dust.

SOUND: Up wind, set fire...

VOICE

Havoc...

SECOND VOICE

Destruction...

DEEP VOICE

Waste...

SOUND: Up wind, kill fire, set flood...

VOICE

Floods rushing down the great valleys.

VOICES IN UNISON

Floods, drowning, killing, wasting...

SOUND: Up wind...

DEEP VOICE

The wealth of America washing and blowing away -- soil erosion!

SOUND: Clap of thunder...

ANNOUNCER

Father Was a Soil Builder: the 146th consecutive episode of  
Fortunes Washed Away!

ORGAN THEME: DEEP RIVER.

1. The first part of the report is a general introduction to the subject.

2. The second part is a detailed description of the methods used.

3. The third part is a discussion of the results obtained.

4. The fourth part is a conclusion and a list of references.

5. The fifth part is a summary of the main points.

6. The sixth part is a list of the authors' names.

7. The seventh part is a list of the titles of the papers.

8. The eighth part is a list of the names of the institutions.

9. The ninth part is a list of the names of the sponsors.

10. The tenth part is a list of the names of the reviewers.

11. The eleventh part is a list of the names of the editors.

12. The twelfth part is a list of the names of the publishers.

13. The thirteenth part is a list of the names of the distributors.

14. The fourteenth part is a list of the names of the subscribers.

15. The fifteenth part is a list of the names of the agents.

16. The sixteenth part is a list of the names of the correspondents.

17. The seventeenth part is a list of the names of the consultants.

18. The eighteenth part is a list of the names of the advisors.

19. The nineteenth part is a list of the names of the assistants.

20. The twentieth part is a list of the names of the secretaries.

21. The twenty-first part is a list of the names of the clerks.

22.

23.

24. The twenty-fourth part is a list of the names of the janitors.

25. The twenty-fifth part is a list of the names of the cleaners.

26. The twenty-sixth part is a list of the names of the gardeners.

27. The twenty-seventh part is a list of the names of the cooks.

28. The twenty-eighth part is a list of the names of the bakers.

29. The twenty-ninth part is a list of the names of the butchers.

30.

ANNOUNCER

When the Cherokee Indians were driven away from the Atlantic seaboard, they moved to Indian Territory, now the eastern slice of the state of Oklahoma. Prominent in early days was Sequoyah, who gave the Cherokees their alphabet, first written language of the five civilized tribes, Chickasaws, Choctaws, Cherokees, Creeks, Seminoles. Prominent, too, was Sequoyah County, land of streams and hills and woods and rocks, land of rain and land of sunshine, land of James Angus McDonald. James Angus McDonald wasn't a Cherokee, though...he came into the territory later. But let his son, Angus McDonald, tell the story. His father was.....(FADE)

NARRATOR

My father was an Oklahoma preacher. He was also a fanatic -- on soil conservation. He was always telling his neighbors how they should plow their crops, and they were always laughing at him. He had funny ideas about the way to plow in dry weather, about hillside plowing, about building dams in the gullies and draws, and about conserving the soil in other ways. I remember the first year we moved there...1912, it was. There was a hot battle going on between Taft and Wilson, then...but of course I didn't know that. But I sure remember what that grand old man said to me. We were out in the fields, and.....(FADE)

FATHER

There it is, my boy...probably the poorest and hilliest farm in Eastern Oklahoma. We might call it the rock and air farm... that's all she is, rocks and air.

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891

1891



ANGUS

It's not all that way, father. Over there on that side it's almost level.

FATHER

I know, but it's been farmed a long time, and the soil is might near yellow. That shows you what sheet wash will do.

ANGUS

Sheet wash?

FATHER

Yes, washing away the soil a little at a time. You'll learn as you grow up, Angus. You'll learn that you can have soil wash even though you don't have gullies. But I hope you'll learn more -- that you can keep the soil from washing. That's what I aim to do here.

ANGUS (NOT COMPREHENDING)

I guess so. But the oats are good, father.

FATHER

No, my boy. We have a good stand, but the dry spell is getting it. I'm not disappointed. I didn't expect much of a crop. The land has got to be built up. This is a dry year, son...we won't do much, except prepare for the future...(FADE)...

NARRATOR (FADING IN)

....and the old man was right, it was a dry year, the driest summer I remember. The drouth stunted the oats, and it made the ground so hard you couldn't stick a plow in it. It had just enough clay to harden it like cement. (LAUGHING) We had a hired hand named Charley working for us, and did he hate hard work! One time we were out in that old oat field, and....

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

CHARLEY (GRUMBLING)

He should of knowed better. I told him. I told him.

ANGUS

Told who, Charley?

CHARLEY

Your paw.

ANGUS

Told him what, Charley?

CHARLEY

I told him we'd better wait 'til it rains. I said we can't plow this ground. And he only says, "we'll break that land, and when it does rain, it'll soak up the water and store the moisture." He says, "the main thing is to get your land in condition for the rain." Hmmm!

ANGUS

But I'm helping you. I got out the other turning plow, and I aim to help you break the eight acres.

CHARLEY

Lot of help you'll be! But come on.

ANGUS

Why won't I help?

CHARLEY

Lissen, Angus, this here land is hard. You can't cut a very wide slice because the team can't pull the plow. Sometimes the plow will jump out of the ground and you have to stand it on its point to get it back in. Let me show you. Gittap there!

SOUND: Clanking of harness....

CHARLEY

Why, you, onery.....gittap there...git.....whoa.





SOUND: Stop clanking harness...

CHARLEY

You see?

FATHER (fading in)

I wondered where that other turning plow went. See what, Charley?

CHARLEY

Mister McDonald, I'm gonna quit. Right now.

ANGUS

I've heard that a lot of times, Charley.

CHARLEY (STALLING)

Well....this time I mean it.

FATHER

Do you?

CHARLEY

Yes, I do. If you weren't so stubborn yourself, you wouldn't work so hard. You preach the same ideas -- that everybody ought to work all the time. I honestly believe you think the Lord wants us all to work all the time.

FATHER

When there's work to be done, Charley, we work. Go on with it. I'll take this plow, Angus...you fetch the water.

CHARLEY

I don't feel well.

FATHER

I noticed that.

ANGUS

So did I. Mother said you wasn't feeling well because you only ate nine biscuits for breakfast.

1871

1872

1873

1874

1875

1876

1877

1878

1879

1880

1881

1882

1883

1884

1885

1886

1887

1888

1889

1890

1891

1892

1893

1894

1895

FATHER

Come on, Charley.

SOUND: Harness clinking....

CHARLEY (fading off)

Oh, blast the day I was born....git up there! You blanketey....

NARRATOR (fading in)

A few days later there came a gully washer, I mean a real one. What you might call a toad-strangler. Just about the middle of the afternoon a couple came to get married, and we couldn't find the old man anywhere. Mother sent me out to look for him -- with my coat and overshoes. She was mighty particular that way.

SOUND: Heavy rain behind....

NARRATOR

The rain was coming down in sheets and the water was running everywhere. I noticed on the way to the field that one of the ditches the old man had dug was nearly full of water. Then I saw my father. The old man was standing by the fence that divided his land from Cassidy's....

SOUND: Rain down slightly...

FATHER (shouting)

Come here! I want to show you something. Look at that water coming off Cassidy's land!

SOUND: Rain up...

1917

July 1st 1917

Dear Mr. [Name]

(The [Name] [Name])

I have been thinking about you and your work lately.

(The [Name] [Name])

I have been thinking about you and your work lately.

I have been thinking about you and your work lately.

I have been thinking about you and your work lately.

I have been thinking about you and your work lately.

I have been thinking about you and your work lately.

Yours truly,

[Signature]

I have been thinking about you and your work lately.

I have been thinking about you and your work lately.

I have been thinking about you and your work lately.

I have been thinking about you and your work lately.

I have been thinking about you and your work lately.

Yours truly,

[Signature]

I have been thinking about you and your work lately.

Yours truly,

[Signature]



NARRATOR

His field had about the same slope as ours. It had corn on it, and the rows ran up and down hill. Between the rows there were little streams of water. You could see them all the way up the hill when the lightning flashed. Down below, where they joined to form a brook, they cut across and washed out the whole row. The old man explained it all to me...

SOUND: Rain almost out...

FATHER

It's letting up now, son...but the water is still ripping the land to pieces.

ANGUS

I see.....but, father...you're getting soaked.

FATHER (IGNORING HIM)

Let's follow the water.

SOUND: Boots slushing thru mud...

ANGUS

Why, this gully's getting bigger all the time.

FATHER

Come on.

ANGUS

It's hard walking, and besides...mother said to tell you that....

FATHER

Now, you'll notice here, that the land has begun to flatten out. The gully is getting shallow...

ANGUS

It's almost gone! Gee, that's fine!

$$\begin{aligned} \mathbb{E}[\mathcal{L}_t] &= \mathbb{E}[\mathcal{L}_t^{\text{train}} + \mathcal{L}_t^{\text{test}}] \\ &= \mathbb{E}[\mathcal{L}_t^{\text{train}}] + \mathbb{E}[\mathcal{L}_t^{\text{test}}] \\ &= \mathbb{E}[\mathcal{L}_t^{\text{train}}] + \mathbb{E}[\mathcal{L}_t^{\text{test}}] \end{aligned}$$

*[Faint handwritten notes at the bottom of the page, likely bleed-through from the reverse side.]*

[illegible]

1. *Pharmaceuticals* (1997) 10: 101-102.

[illegible]

FATHER

Yes, water is spreading all over this flat place...my one flat field. Tomorrow, if this keeps up, they'll be a layer of sand and clay. You're seeing poor land being made poorer, and good land being ruined. But look back at our fields, and you'll see the gullies controlled by small dams, so the water soaks in. Now look at Cassidy's. Son, these improvident farmers are ruining the land. Yes, ruining it world without end. The whole country is going to rack and ruin. There will come a time when conservation will be popular but it will be too late. When the farmers are pauperized, the nation will face ruin. (PAUSE)

NARRATOR

Father kept building up his land, but Cassidy kept letting his go to pot. The old man showed Cassidy over our farm. He showed him the fields where the rows ran on the contour, and he showed him the rock wall where the wash had filled in until our land was a foot and a half higher than Cassidy's. He pointed out.... (FADE)

FATHER

Look at that land.

CASSIDY

I'm looking at it.

FATHER

Four years ago you said it wasn't worth cultivating. I got a good crop of oats off it, and the peas will be ready to pick in a few weeks. We'll pick the peas, and make hay out of the vines. And look at those dams in the gullies.





CASSIDY

Brother Mac, you build more dams than anybody I know of. But I ain't got time to be hauling so much rock. You see that gully?

FATHER

Yes, I see it, and I see also some of the soil it washed down onto my land.

CASSIDY

Why, it would take a thousand loads of rock to fill it up. I ain't stout. I can't be lifting them big rocks, anyway.

FATHER

It wouldn't take a thousand loads of rock. Let's see. I'd put about eight dams in that deepest gully. Take about a wagonload to each dam. I'll tell you what I'll do. If you'll put in those dams I'll furnish you a hand to help you lift the big rocks.

CASSIDY

Yeah?

FATHER (GETTING ENTHUSIASTIC)

Then you could put a ditch here by the fence to take care of the surplus water. You could build little dams in the small gullies, and run your rows on the contour....and then by changing your crops.....

CASSIDY (SPITTING)

Brother Mac, your idees are good, but not for the likes of me. I'm rather poorly with my asthmy, and I have to raise cotton. I got to have money to raise a crop and live on.

FATHER

But at least, you can run your rows with the lay of the land, and not up and down hill!

17

... ..

18

... ..

19

... ..

20

... ..

21

... ..

22

... ..

23

... ..

24

... ..

25

... ..

26

CASSIDY

Ain't got time.

FATHER (EXASPERATED)

Why, you...why, you.....I'm a minister of the Lord. But...you stupid fool!!

NARRATOR

You see, Cassidy kept raising corn and cotton, running his rows up and down hill. The crops weren't much good, though, and we didn't get any good out of the debris that came down on our best land. More and more, the old man walked down to the lower side and looked at Cassidy's land. Once I heard him mutter something about the foundation of civilization being undermined. Then he turned to me and said...(FADE)

FATHER

Son, we'll buy this ten acres. We need more land anyway.

ANGUS

But this land is poor and thin. And besides, Cassidy is so contrary he probably won't sell it.

FATHER (WITH DETERMINATION)

He'll sell it.

NARRATOR

The next day Cassidy came over to borrow a hame-string and he got to talking about his land and crops. I remembered the old man's look the day before, and I knew that he would have that land, because when he once made up his mind about something, he never changed it. Well, Cassidy was talking, and...(FADE)

1. 1990-1991

1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718

*[Faint handwritten notes at the bottom of the page]*

11. 1944

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.



CASSIDY

My land ain't good like yours, Brother Mac. It washes so bad. And my crops is so poor. That last rain washed out a lot of cotton on the north side of my field.

FATHER

You're right. Your land is awful sorry. Some of it isn't worth paying taxes on. It'd pay you to let that north ten go back for taxes.

CASSIDY

Oh, I wouldn't do that. I wouldn't let it go for taxes. I might sell it, though.

FATHER (LAUGHING)

Who'd buy it?

CASSIDY

Why don't you buy it, Brother Mac? You said the other day you needed more land.

FATHER

I need some good land. Well, we've got to get back to the field and finish pulling fodder. My daddy always saved his fodder. It's fine for horses in hot weather. A good bundle of fodder will keep a horse from getting the thumps in hot weather. Giddap...

SOUND: Harness clinking, horses snorting....

CASSIDY

But wait.....PAUSE AND OUT.

100

The first part of the book is devoted to a general  
introduction to the subject of the book. It is  
divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

The second part of the book is devoted to a  
general introduction to the subject of the book. It  
is divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

The third part of the book is devoted to a  
general introduction to the subject of the book. It  
is divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

The fourth part of the book is devoted to a  
general introduction to the subject of the book. It  
is divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

The fifth part of the book is devoted to a  
general introduction to the subject of the book. It  
is divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

The sixth part of the book is devoted to a  
general introduction to the subject of the book. It  
is divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

The seventh part of the book is devoted to a  
general introduction to the subject of the book. It  
is divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

The eighth part of the book is devoted to a  
general introduction to the subject of the book. It  
is divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

The ninth part of the book is devoted to a  
general introduction to the subject of the book. It  
is divided into two parts. The first part is devoted  
to a general introduction to the subject of the book.

NARRATOR

My father plowed his corn a month after the neighbors had laid theirs by. Corn, he would say, has an extensive root system. It needs lots of moisture. So, when he plowed for corn, he turned his land deep and made a good seedbed -- so it would hold the moisture longer. He worked hard, too...and people would say that he went to a lot of trouble. One day he was tying fodder when Cassidy came up to the barn...

SOUND: Rattling cornstalks...

CASSIDY (fading in)

Brother Mac, you shore do like work. Why, you can get hay a lot easier than that.

FATHER

Cassidy, I heard you had been buying some hay. I never bought a bale of hay and I never expect to.

CASSIDY

Seems like my medder didn't turn out so good on account of the drouth. Brother Mac, if you hear of anybody that wants to buy that land let me know. I'd sell cheap.

FATHER

Any price would be high for that land. Come on, boys...it's burning daylight. We've got to get that fodder pulled before night.

ORGAN: SHARP NOTE.

CASSIDY

But, Brother Mac!

ORGAN: SHARP NOTE.

CASSIDY

But, Brother Mac!

The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The second part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The third part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The fourth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The fifth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The sixth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The seventh part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The eighth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The ninth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe. The tenth part of the paper is devoted to a detailed discussion of the problem. It is shown that the problem is of great importance in the theory of the structure of the universe.

ORGAN: SOFT NOTE.

FATHER

Well, boys...I just bought the Cassidy ten.

NARRATOR

The old man was a hard worker, and we all pitched in on the Cassidy land. Thickets along the gully, getting out the black-berry bushes and second-growth stuff. Build dams. Plow on the contour. Build ditches. We had hired hands, by then, and they didn't seem to pay much attention to his lectures. But he would say, as he would "hist" his foot on the wagon hub....

FATHER

The Scotch have contributed a great deal to conservation of the soil. There is no doubt in my mind that Thomas Jefferson got a lot of his ideas from them. That's natural that they should conserve, because they had a poor country, and they were foremost in everything else.

NARRATOR

Well, my father would preach, and he would set Bermuda grass in the pastures. He would build stock ponds, and lanes -- with good, stout hog-wire and barb-wire. His barns were overflowing, his cattle were the fattest, his horses were the best-trained; the farm was a well-ordered little universe; our hill farm became known as the best in the county. And my father would say, as he walked along in the moist loamy dirt in the furrow....

FATHER

Look at that rich dirt turning over. Isn't that fine? Look at that rich brown dirt that I'm turning. I tell you, this is the only life.





NARRATOR

Even as he began to get on in years, he didn't forget....he kept giving orders....orders, orders....not orders, no....directions... like a man who loved this land of ours....

FATHER (softly)

Build those dams. Direct the hands. Get Bermuda in those gullies.

(CHUCKLING SOFTLY) Grass'll heal 'em.

SOUND: Car coming to halt...

FATHER

What's this?

ANGUS

The ambulance, father.

FATHER

Oh, yes, the ambulance! Looks like I'm going toward the green pastures.

ANGUS (softly)

No, father...no father.

FATHER

Don't make any fuss over me. These cars -- why, half the farmers cars aren't paid for. Look at these farms. Half the window lights out, the fences down, and not a cow or a chicken or a pig on the place -- but a car sitting in the yard. (SIGHS).

ANGUS

You must rest, father.

FATHER

Rest. Yes, I must rest. I'm an old man. I'm done.

ANGUS

No, father, you're not done.



ORGAN: DELIRIOUS MUSIC BEHIND.

FATHER

I've never been beaten! -- never been beaten.

ANGUS

Father!

FATHER

I will build dams again. This will stop the wash. Why don't you set out Bermuda -- and then let a gully washer come!

ORGAN: UP AND OUT.

NARRATOR

He died in a few days in his sleep. The nurse who held his hand said that his pulse beat strongly up to the last. The funeral service was held in the old church where he had once been the pastor. The minister told what a good man he was, and how many souls he had saved. He didn't mention the soil he had saved.

But my father was a soil builder.

ORGAN THEME: DEEP RIVER.

#

100 - 1000 10 10 10

100

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

100

100

100

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000